

Claims

1. A debarking mechanism (1) for the decortication or pretreatment of trees (2) for separately performed final barking and for the expulsion of at least
5 some of the removed barks from a wood flow passing through the debarking mechanism, said debarking mechanism comprising a number of rotatable debarking shafts (3, 3') extending parallel to the advancing direction (A) of the trees (2) to be fed therethrough and provided with a number of teeth (4) extending beyond the circumferential surface of the shaft (3, 3') and adapted
10 to strip bark off the presently processed trees (2) transversely to the lengthwise direction of the trees and at the same time to convey the trees transversely relative to said shafts (3, 3'), and said shafts (3, 3'), together with the teeth (4) thereof, being adapted to constitute at least part of a support surface, upon which the presently processed trees (2) travel through
15 the debarking mechanism (1), and said debarking shafts (3, 3') being adapted relative to each other in such a way that the presently processed trees (2) perform a circular motion (C) in the debarking mechanism, in which motion the trees (2) upon the support surface constituted by the debarking shafts (3, 3') are forced by the rotatory motion (5) of the debarking shafts
20 (3, 3') in their turn into the upper position, from which they roll down above the other trees (2) in the debarking mechanism (1) into the lower position, **characterized** in that the uppermost debarking shaft (3') has been fitted together with a guiding surface (8), said surface together with the uppermost debarking shaft (3') forming a slot (9) convergent in the direction
25 of rotation (5) of the debarking shaft (3').

2. A debarking mechanism as set forth in claim 1, **characterized** in that the guiding surface (8) is provided with grooves (10) for getting the said guiding surface and the teeth (4) of the uppermost debarking shaft (3') interlocked.

3. A debarking mechanism as set forth in claim 1 or 2, **characterized** in that the guiding surface (8) consists of a freely rotating roller.

4. A debarking mechanism as set forth in claim 1 or 2, **characterized** in
5 that the guiding surface (8) consists of a rotatable roller.

5. A debarking mechanism as set forth in claim 1, **characterized** in that at least one of the debarking shafts, most preferably the uppermost debarking shaft (3'), has been moved sideways towards the inner part (6) of the
10 debarking mechanism (1), said debarking shaft thus forcing the trees (2) moved by the lower debarking shafts (3) to change their direction of motion so that when dividing the motion into a horizontal and a vertical component, the horizontal component points at the inner part (6) of the debarking mechanism (1).

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6. A debarking mechanism as set forth in claim 1, **characterized** in that the circumferential speed of the debarking shaft (3, 3') has been chosen to be the larger the higher the debarking shaft (3, 3') lies.